

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



533 353

(43) International Publication Date
21 May 2004 (21.05.2004)

PCT

(10) International Publication Number
WO 2004/041168 A2

(51) International Patent Classification⁷: **A61K**

International Application Number:
PCT/US2003/034250

CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC,
SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA,
UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(22) International Filing Date: 29 October 2003 (29.10.2003)

(44) Filing Language: English

(45) Publication Language: English

(30) Priority Data:
423,409 31 October 2002 (31.10.2002) US

(84) Designated States (*regional*): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,
SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM,
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(71) Applicant and
(72) Inventor: BERNSTEIN, Eric, F. [US/US]; 1321 Grennox
Road, Wynnnewood, PA 19096 (US).

Published:
— without international search report and to be republished
upon receipt of that report

(74) Agents: LICATA, Jane, Massey et al.; Licata & Tyrrell
P.C., 66 E. Main Street, Marlton, NJ 08053 (US).

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,

(54) Title: COMPOSITIONS AND METHODS FOR PREVENTION OF PHOTOAGING

(57) Abstract: Methods of preventing photoaging and sun burn by topically applying a composition containing caffeine or a com-
pound structurally similar to caffeine are provided. Pharmaceutical compositions comprising caffeine or a compound structurally
similar to caffeine for the prevention of photoaging and sun burn are also provided.

BEST AVAILABLE COPY

WO 2004/041168 A2